Polycasa Acryl® KR 2008/1 Acrylic, Impact Grade

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Impact Modified, Molded

Material Notes:

Impact grade for extruded tubes and profiles; e.g. strip light diffusers; good scratch and abrasion resistance.Data was collected by ISO methods.Quinn Manufacturing Group rebranded its Plastics Division as Polycasa in 2013.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Polycasa-Acryl-KR-20081-Acrylic-Impact-Grade.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in³	
Moisture Absorption at Equilibrium	0.30 %	0.30 %	
Linear Mold Shrinkage, Flow	0.0065 cm/cm	0.0065 in/in	
Melt Flow	1.6 g/10 min @Load 3.80 kg, Temperature 230 °C	1.6 g/10 min @Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	
Elongation at Break	25 %	25 %	
Elongation at Yield	5.0 %	5.0 %	
Tensile Modulus	2.50 GPa	363 ksi	
Charpy Impact Unnotched	5.00 J/cm²	23.8 ft-lb/in²	
Charpy Impact, Notched	0.300 J/cm²	1.43 ft-lb/in²	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	95.0 µm/m-°C @Temperature 20.0 °C	52.8 µin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	98.0 °C	208 °F	
Deflection Temperature at 1.8 MPa (264 psi)	93.0 °C	199 °F	
Vicat Softening Point	106 °C	223 °F	
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Thermal Properties	Metric	English	Comments

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	
Dielectric Constant	2.9 @Frequency 1e+6 Hz	2.9 @Frequency 1e+6 Hz	
	3.2 @Frequency 100 Hz	3.2 @Frequency 100 Hz	
Dielectric Strength	60.0 kV/mm	1520 kV/in	
Dissipation Factor	0.030 @Frequency 1e+6 Hz	0.030 @Frequency 1e+6 Hz	
	0.040 @Frequency 100 Hz	0.040 @Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

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